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Application Number 10/693,008
Amendment dated February 2, 2005

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended): A method comprising:

activating telemetry circuitry in a programmer for a medical device ; and
disabling a display in the programmer during activation of the telemetry circuitry to
reduce electrical interference.

Claim 2 (Currently Amended): The method of claim 1, further comprising disabling ~~electronics~~
circuitry associated with the display during the telemetry.

Claim 3 (Currently Amended): The method of claim 1, wherein the display resides on a circuit
board with display circuitry to drive the display, and disabling the display includes disabling the
display and the display circuitry.

Claim 4 (Original): The method of claim 1, further comprising enabling the display when the
telemetry is not activated.

Claim 5 (Currently Amended): The method of claim 1, wherein the medical device is an
implantable neurostimulator, and wherein the programmer includes an internal antenna, and a the
telemetry circuitry circuit to transmit signals to the implantable neurostimulator via the internal
antenna and processes ~~process~~ signals received from the implantable neurostimulator via the
internal antenna, the method further comprising enabling the display when the telemetry circuitry
is not activated.

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Claim 6 (Currently Amended): The method of claim 1, wherein the programmer includes an internal antenna; ~~and an external antenna, and a~~ wherein the telemetry circuitry performs circuit ~~to perform~~ telemetry via one of the internal antenna and the external antenna, the method further comprising enabling the display when the telemetry circuitry circuit ~~circuit~~ performs telemetry via the external antenna.

Claim 7 (Currently Amended): The method of claim 1, wherein the programmer includes an internal antenna; ~~and an external antenna, and a~~ wherein the telemetry circuitry performs circuit ~~to perform~~ telemetry via one of the internal antenna and the external antenna, the method further comprising disabling the display when the telemetry circuitry circuit ~~circuit~~ performs telemetry via the internal antenna.

Claim 8 (Original): The method of claim 1, wherein the display is a liquid crystal display.

Claim 9 (Currently Amended): The method of claim ~~1~~ 7, wherein the programmer includes ~~an~~ the internal antenna and a the telemetry circuitry on a first circuit board and the display on a second circuit board.

Claim 10 (Original): The method of claim 9, wherein the internal antenna defines an aperture, and the programmer includes a battery bay extending at least partially into the aperture.

Claim 11 (Currently Amended): The method of claim 9, wherein the telemetry circuitry circuit ~~circuit~~ is coupled to ~~an~~ the external antenna via a cable, the method including selectively communicating with a the medical device via one of the internal antenna and the external antenna.

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Claim 12 (Currently Amended): A programmer comprising:

an antenna coupled to a programmer housing;
telemetry circuitry within the housing to perform telemetry with a medical device via the internal antenna;
a display within the housing to present information; and
control circuitry to disable the display in the programmer during the telemetry to reduce electrical interference.

Claim 13 (Original): The programmer of claim 12, wherein the control circuitry disables circuitry associated with the display during the telemetry.

Claim 14 (Currently Amended): The programmer of claim 12, wherein the display resides on a circuit board with display circuitry to drive the display, and the control circuitry disables the display ~~includes disabling the display~~ and the display circuitry.

Claim 15 (Original): The programmer of claim 12, wherein the control circuitry enables the display when the telemetry is not activated.

Claim 16 (Currently Amended): The programmer of claim 12, wherein the ~~medical device is an implantable neurostimulator, and wherein the programmer includes~~ antenna is an internal antenna and a ~~the telemetry circuitry transmits circuit to transmit~~ signals to the ~~implantable neurostimulator~~ medical device via the internal antenna and ~~processes~~ process signals received from the ~~implantable neurostimulator~~ medical device via the internal antenna, and wherein the control circuitry enables the display when the telemetry is not activated.

Claim 17 (Currently Amended): The programmer of claim 12, wherein the programmer includes an internal antenna, ~~and an external antenna, and a~~ wherein the telemetry circuitry performs ~~circuit to perform~~ telemetry via one of the internal antenna and the external antenna, and the control circuitry enables the display when the telemetry circuitry ~~circuit~~ performs telemetry via the external antenna.

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Claim 18 (Currently Amended): The programmer of claim 12, wherein the programmer includes an internal antenna; and an external antenna, and a wherein the telemetry circuitry performs circuit to perform telemetry via one of the internal antenna and the external antenna, and the control circuitry disables the display when the telemetry circuitry circuit performs telemetry via the internal antenna.

Claim 19 (Original): The programmer of claim 18, wherein the display is a liquid crystal display.

Claim 20 (Currently Amended): The programmer of claim 18, ~~wherein the programmer includes an internal antenna and a telemetry circuit on~~ further comprising:
a first circuit board; ~~and the display on~~
a second circuit board, wherein the internal antenna and the telemetry circuitry reside on the first circuit board and the display resides on the second circuit board.

Claim 21 (Currently Amended): The programmer of claim 20, wherein the telemetry circuitry is coupled to ~~an~~ the external antenna via a cable, and the control circuitry selects one of the internal antenna and the external antenna for telemetry with the medical device.

Claim 22 (Previously Presented): The method of claim 1, wherein the medical device is an implanted neurostimulator.

Claim 23 (Previously Presented): The programmer of claim 12, wherein the medical device is an implanted neurostimulator.

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Claim 24 (Previously Presented): A method comprising:

activating telemetry circuitry in a programmer for an implantable neurostimulator;
communicating with the neurostimulator via the telemetry circuitry; and
disabling a display in the programmer during communication via the telemetry circuitry
to reduce electrical interference.

Claim 25 (Previously Presented): The method of claim 24, wherein the programmer is a
handheld, portable device.

Claim 26 (Previously Presented): The method of claim 24, wherein the programmer includes an
internal antenna, and the telemetry circuitry transmits signals to the implantable neurostimulator
via the internal antenna and processes signals received from the implantable neurostimulator via
the internal antenna, the method further comprising enabling the display when the telemetry
circuitry is not activated.

Claim 27 (Previously Presented): The method of claim 24, wherein the programmer includes an
internal antenna, an external antenna, and the telemetry circuitry performs telemetry via one of
the internal antenna and the external antenna, the method further comprising enabling the display
when the telemetry circuit performs telemetry via the external antenna and disabling the display
when the telemetry circuit performs telemetry via the internal antenna.

Claim 28 (Previously Presented): A programmer for an implantable neurostimulator, the
programmer comprising:

an antenna coupled to a programmer housing;
telemetry circuitry within the housing to perform telemetry with the neurostimulator via
the internal antenna;
a display within the housing to present information; and
control circuitry to disable the display in the programmer during the telemetry to reduce
electrical interference.

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Claim 29 (Previously Presented): The programmer of claim 28, wherein the programmer is a handheld, portable device.

Claim 30 (Previously Presented): The programmer of claim 28, wherein the programmer includes an internal antenna, and the telemetry circuitry transmits signals to the implantable neurostimulator via the internal antenna and processes signals received from the implantable neurostimulator via the internal antenna, the control circuitry enabling the display when the telemetry circuitry is not activated.

Claim 31 (Previously Presented): The method of claim 28, wherein the programmer includes an internal antenna, an external antenna, and the telemetry circuitry performs telemetry via one of the internal antenna and the external antenna, the control circuitry enabling the display when the telemetry circuit performs telemetry via the external antenna and disabling the display when the telemetry circuit performs telemetry via the internal antenna.

Claim 32 (Previously Presented): A system comprising:
an implantable neurostimulator; and
a programmer for the neurostimulator, the programmer including an antenna coupled to a programmer housing, telemetry circuitry within the housing to perform telemetry with the neurostimulator via the internal antenna, a display within the housing to present information, and control circuitry to disable the display in the programmer during the telemetry to reduce electrical interference.

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